

**HOUSING FOR TEMPERATURE SENSING ASSEMBLIES
IN A THERMOMETER**

ABSTRACT OF THE DISCLOSURE

5 A platinum resistance thermometer has an outer housing with a bore that receives a temperature sensor assembly including a mandrel having a sensing section with a platinum wire wound thereon and supported in the bore with a non-cohesive powder
10 material that will distribute stresses caused by differential thermal expansion between the housing and the temperature sensor assembly. A second portion of the mandrel is supported in the bore with a rigid epoxy to mechanically support the sensor assembly
15 with the sensing section cantilevered from the rigid epoxy.